

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 33.0° N/S

Earliest Sunrise: 4:50 a.m. Latest Sunset: 7:10 p.m.

E-W Dimension: 1000 mm

Local Time		X	Y	Local Time		X	Y	Local Time		X	Y
12:00		0.0	-500.0								
11:55	12:05	5.9	-500.0	8:25	3:35	366.4	-500.0	4:55	7:05	500.0	267.6
11:50	12:10	11.9	-500.0	8:20	3:40	383.7	-500.0	4:50	7:10	500.0	289.5
11:45	12:15	17.8	-500.0	8:15	3:45	402.1	-500.0	4:45	7:15	500.0	311.6
11:40	12:20	23.8	-500.0	8:10	3:50	421.7	-500.0				
11:35	12:25	29.8	-500.0	8:05	3:55	442.7	-500.0				
11:30	12:30	35.9	-500.0	8:00	4:00	465.3	-500.0				
11:25	12:35	41.9	-500.0	7:55	4:05	489.7	-500.0				
11:20	12:40	48.0	-500.0	7:50	4:10	500.0	-484.4				
11:15	12:45	54.2	-500.0	7:45	4:15	500.0	-458.9				
11:10	12:50	60.4	-500.0	7:40	4:20	500.0	-433.9				
11:05	12:55	66.6	-500.0	7:35	4:25	500.0	-409.5				
11:00	1:00	73.0	-500.0	7:30	4:30	500.0	-385.5				
10:55	1:05	79.4	-500.0	7:25	4:35	500.0	-361.9				
10:50	1:10	85.9	-500.0	7:20	4:40	500.0	-338.7				
10:45	1:15	92.4	-500.0	7:15	4:45	500.0	-315.9				
10:40	1:20	99.1	-500.0	7:10	4:50	500.0	-293.4				
10:35	1:25	105.9	-500.0	7:05	4:55	500.0	-271.2				
10:30	1:30	112.8	-500.0	7:00	5:00	500.0	-249.3				
10:25	1:35	119.8	-500.0	6:55	5:05	500.0	-227.7				
10:20	1:40	127.0	-500.0	6:50	5:10	500.0	-206.3				
10:15	1:45	134.3	-500.0	6:45	5:15	500.0	-185.1				
10:10	1:50	141.8	-500.0	6:40	5:20	500.0	-164.1				
10:05	1:55	149.4	-500.0	6:35	5:25	500.0	-143.2				
10:00	2:00	157.2	-500.0	6:30	5:30	500.0	-122.5				
9:55	2:05	165.2	-500.0	6:25	5:35	500.0	-101.9				
9:50	2:10	173.5	-500.0	6:20	5:40	500.0	-81.4				
9:45	2:15	182.0	-500.0	6:15	5:45	500.0	-61.0				
9:40	2:20	190.7	-500.0	6:10	5:50	500.0	-40.6				
9:35	2:25	199.7	-500.0	6:05	5:55	500.0	-20.3				
9:30	2:30	209.0	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	218.6	-500.0	5:55	6:05	500.0	20.3				
9:20	2:40	228.5	-500.0	5:50	6:10	500.0	40.6				
9:15	2:45	238.8	-500.0	5:45	6:15	500.0	61.0				
9:10	2:50	249.5	-500.0	5:40	6:20	500.0	81.4				
9:05	2:55	260.7	-500.0	5:35	6:25	500.0	101.9				
9:00	3:00	272.3	-500.0	5:30	6:30	500.0	122.5				
8:55	3:05	284.5	-500.0	5:25	6:35	500.0	143.2				
8:50	3:10	297.2	-500.0	5:20	6:40	500.0	164.1				
8:45	3:15	310.5	-500.0	5:15	6:45	500.0	185.1				
8:40	3:20	324.5	-500.0	5:10	6:50	500.0	206.3				
8:35	3:25	339.3	-500.0	5:05	6:55	500.0	227.7				
8:30	3:30	354.9	-500.0	5:00	7:00	500.0	249.3				

## Horizontal Shadow Plane Sundial

Latitude: 33.0° N/S

Earliest Sunrise: 4:50 a.m. Latest Sunset: 7:10 p.m.

E-W Dimension: 3000 mm

Local Time		X	Y	Local Time		X	Y	Local Time		X	Y
12:00		0.0	-1500.0								
11:55	12:05	17.8	-1500.0	8:25	3:35	1099.2	-1500.0	4:55	7:05	1500.0	802.8
11:50	12:10	35.7	-1500.0	8:20	3:40	1151.0	-1500.0	4:50	7:10	1500.0	868.4
11:45	12:15	53.5	-1500.0	8:15	3:45	1206.2	-1500.0	4:45	7:15	1500.0	934.9
11:40	12:20	71.5	-1500.0	8:10	3:50	1265.1	-1500.0				
11:35	12:25	89.5	-1500.0	8:05	3:55	1328.2	-1500.0				
11:30	12:30	107.6	-1500.0	8:00	4:00	1395.9	-1500.0				
11:25	12:35	125.7	-1500.0	7:55	4:05	1469.1	-1500.0				
11:20	12:40	144.1	-1500.0	7:50	4:10	1500.0	-1453.3				
11:15	12:45	162.5	-1500.0	7:45	4:15	1500.0	-1376.7				
11:10	12:50	181.1	-1500.0	7:40	4:20	1500.0	-1301.8				
11:05	12:55	199.9	-1500.0	7:35	4:25	1500.0	-1228.4				
11:00	1:00	218.9	-1500.0	7:30	4:30	1500.0	-1156.4				
10:55	1:05	238.1	-1500.0	7:25	4:35	1500.0	-1085.6				
10:50	1:10	257.6	-1500.0	7:20	4:40	1500.0	-1016.1				
10:45	1:15	277.3	-1500.0	7:15	4:45	1500.0	-947.7				
10:40	1:20	297.3	-1500.0	7:10	4:50	1500.0	-880.2				
10:35	1:25	317.7	-1500.0	7:05	4:55	1500.0	-813.7				
10:30	1:30	338.4	-1500.0	7:00	5:00	1500.0	-748.0				
10:25	1:35	359.5	-1500.0	6:55	5:05	1500.0	-683.1				
10:20	1:40	381.0	-1500.0	6:50	5:10	1500.0	-618.9				
10:15	1:45	402.9	-1500.0	6:45	5:15	1500.0	-555.3				
10:10	1:50	425.3	-1500.0	6:40	5:20	1500.0	-492.3				
10:05	1:55	448.2	-1500.0	6:35	5:25	1500.0	-429.7				
10:00	2:00	471.7	-1500.0	6:30	5:30	1500.0	-367.5				
9:55	2:05	495.7	-1500.0	6:25	5:35	1500.0	-305.7				
9:50	2:10	520.5	-1500.0	6:20	5:40	1500.0	-244.2				
9:45	2:15	545.9	-1500.0	6:15	5:45	1500.0	-183.0				
9:40	2:20	572.0	-1500.0	6:10	5:50	1500.0	-121.9				
9:35	2:25	599.0	-1500.0	6:05	5:55	1500.0	-60.9				
9:30	2:30	626.9	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	655.7	-1500.0	5:55	6:05	1500.0	60.9				
9:20	2:40	685.5	-1500.0	5:50	6:10	1500.0	121.9				
9:15	2:45	716.5	-1500.0	5:45	6:15	1500.0	183.0				
9:10	2:50	748.6	-1500.0	5:40	6:20	1500.0	244.2				
9:05	2:55	782.1	-1500.0	5:35	6:25	1500.0	305.7				
9:00	3:00	817.0	-1500.0	5:30	6:30	1500.0	367.5				
8:55	3:05	853.4	-1500.0	5:25	6:35	1500.0	429.7				
8:50	3:10	891.6	-1500.0	5:20	6:40	1500.0	492.3				
8:45	3:15	931.6	-1500.0	5:15	6:45	1500.0	555.3				
8:40	3:20	973.6	-1500.0	5:10	6:50	1500.0	618.9				
8:35	3:25	1017.9	-1500.0	5:05	6:55	1500.0	683.1				
8:30	3:30	1064.7	-1500.0	5:00	7:00	1500.0	748.0				